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NOTICE OF ALLOWANCE AND FEE(S) DUE

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03/18/2008

KOHLER SCHMID MOEBUS RUPPMANNSTRASSE 27 D-70565 STUTTGART, GERMANY

7590

EXAMINER				
YUN, JURIE				
ART UNIT	PAPER NUMBER			
2882				

DATE MAILED: 03/18/2008

APPLICA	ATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/5	507.508	08/19/2005	Steffen Seeber	U194US(PCT)	6416

TITLE OF INVENTION: LEAF, MULTI-LEAF COLLIMATOR, DEVICE FOR DELIMITING BEAMS AND IRRADIATION DEVICE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/18/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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GERMANY									(Depositor's name)
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	OR		ATTO	RNEY DOCKET NO.	CON	FIRMATION NO.
10/507,508 ITLE OF INVENTION	08/19/2005 : LEAF, MULTI-LEAF	COLLIMATOR, DEVIC	Steffen Seeber EE FOR DELIMITING I	BEAl	MS AND IRRAD		U194US(PCT) N DEVICE		6416
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nonprovisional	NO	\$1440	\$300	•	\$0		\$1740	•	06/18/2008
EXAM	INER	ART UNIT	CLASS-SUBCLASS						
YUN, J	URIE	2882	378-152000	_					
FR 1.363). Change of corresp Address form PTO/SE "Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. ASSIGNEE NAME A		nge of Correspondence	•	to 3 ativel ngle for age attorned be pr	registered patent ly, irm (having as a ent) and the name eys or agents. If n inted.	attorn membes of up to nam	er a 2 o to e is 3	ocumen	t has been filed for
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a. Applicant claims	tus (from status indicated s SMALL ENTITY statu	s. See 37 CFR 1.27.	☐ b. Applicant is no l	-	-				
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10/507,508	08/19/2005	Steffen Seeber	U194US(PCT)	6416		
20469 75	90 03/18/2008		EXAMINER			
KOHLER SCHMID MOEBUS			YUN,	JURIE		
RUPPMANNSTRA			ART UNIT	PAPER NUMBER		
D-70565 STUTTG GERMANY	ART,		2882 DATE MAILED: 03/18/200	0		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 397 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 397 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)			
	10/507,508	SEERED ET AL	SEEBER ET AL.		
Notice of Allowability	Examiner	Art Unit			
	Jurie Yun	2882			
	Julie Full	2002			
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is s	this application. If not included inication will be mailed in due course.			
1. X This communication is responsive to amendment filed 2/12	<u>2/08</u> .				
2. X The allowed claim(s) is/are 30,32-44,46-55 and 57.					
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 	e been received.				
2. Certified copies of the priority documents have	• •				
3. X Copies of the certified copies of the priority do	cuments have been received	d in this national stage application fron	n the		
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	IENT of this application.				
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 			OF		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.				
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Reviev	v (PTO-948) attached			
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or	in the Office action of			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			f		
DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATE	ERIAL must be submitted. Note the			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of In	formal Patent Application			
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413),			
3. ☐ Information Disclosure Statements (PTO/SB/08),		Mail Date Amendment/Comment			
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		Statement of Reasons for Allowance			
	9.	<u>-</u> •			
	/Jurie Yun/ Primary Examiner,	Art Unit 2882			

DETAILED ACTION

The amendment filed 2/12/08 has been entered.

Allowable Subject Matter

Claims 30, 32-44, 46-55, and 57 are allowed.

The following is an examiner's statement of reasons for allowance:

Prior art fails to disclose a leaf for a multi-leaf collimator, wherein the multi-leaf collimator comprises a plurality of mutually opposite leaves, the leaf comprising a beam-absorbing material of appropriate thickness and disposed substantially only in a region which can enter into the path of the high-energy beam in all possible adjustment positions of the leaf, wherein the leaf comprises an other region which does not absorb the beam, said other region consisting essentially of an other material having a lower atomic number than said beam-absorbing material and also having good mechanical properties, as claimed in claim 30. Claims 32-43 are allowed due to their dependency on claim 30.

Prior art fails to disclose a multi-leaf collimator, the collimator comprising a plurality of mutually opposite leaves, wherein each of said leaves comprises a beam-absorbing material of appropriate thickness only in a region which may enter into a path of the high-energy beam for all possible adjustment positions of the collimator, wherein the leaf comprises an other region which does not absorb the beam, said other region consisting essentially of an other material having a lower atomic number than said beam-absorbing material and also having good mechanical properties, as claimed in claim 44.

Application/Control Number: 10/507,508

Art Unit: 2882

Prior art fails to disclose a device for delimiting a high-energy beam, the device comprising a multi-leaf collimator having a plurality of mutually opposite leaves, wherein said leaves each comprise a beam-absorbing material of appropriate thickness only in a region which can enter into the path of the high-energy beam and which is not shielded by said further shielding at all possible adjustment positions of said leaves, wherein each of said leaves comprises an other region which does not absorb the beam, said other region consisting essentially of an other material having a lower atomic number than said beam-absorbing material and also having good mechanical properties, as claimed in claim 46. Claims 47-55 are allowed due to their dependency on claim 46.

Page 3

Prior art fails to disclose an irradiation device, the device comprising means for delimiting a high-energy beam emitted by an irradiation source, said delimiting means having a multi-leaf collimator comprising a plurality of mutually opposite leaves, wherein each of said leaves comprises a beam-absorbing material of appropriate thickness only in a region which can enter into a path of the high-energy beam and which is not shielded by said further shielding for all possible adjustment positions, wherein each of said leaves comprises an other region which does not absorb the beam, said other region consisting essentially of an other material having a lower atomic number than said beam-absorbing material and also having good mechanical properties, as claimed in claim 57.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Application/Control Number: 10/507,508 Page 4

Art Unit: 2882

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jurie Yun whose telephone number is 571 272-2497. The examiner can normally be reached on Monday-Friday 8:30-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ed Glick can be reached on 571 272-2490. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jurie Yun/ Primary Examiner, Art Unit 2882

March 12, 2008